

**VIRGINIA STANDARDS OF LEARNING**

**Spring 2005 Released Test**

# **GRADE 3 SCIENCE**

---

**LARGE PRINT FORM**

**Property of the Virginia Department of Education**

Copyright © 2006 by the Commonwealth of Virginia Department of Education, James Monroe Building, 101 N. 14th Street, Richmond, Virginia, 23219. All rights reserved. Except as permitted by law, this material may not be reproduced or used in any form or by any means electronic or mechanical, including photocopying or recording, or by any information storage and retrieval system, without written permission from the copyright owner. Please contact the Commonwealth of Virginia Department of Education at (804) 225-2102, Division of Assessment and Reporting, to request written permission.

Printed in the United States of America

ISBN 999-8279-41-0

## Science

---

### DIRECTIONS

Read each question carefully and choose the best answer.

### SAMPLE

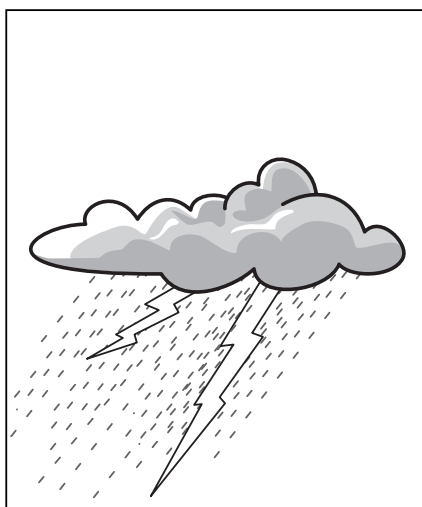
When the Earth is seen from outer space, it looks mainly blue. This is because most of the Earth is covered with

- A ice
- B mountains
- C oceans
- D deserts

**Turn the page  
and  
continue working.**

1 Which of the following weather conditions would make you put on a heavy, warm coat and gloves?

A



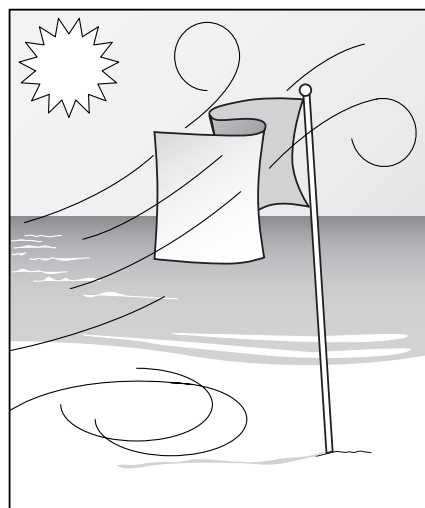
Thunderstorm

B



Snowstorm

**C**



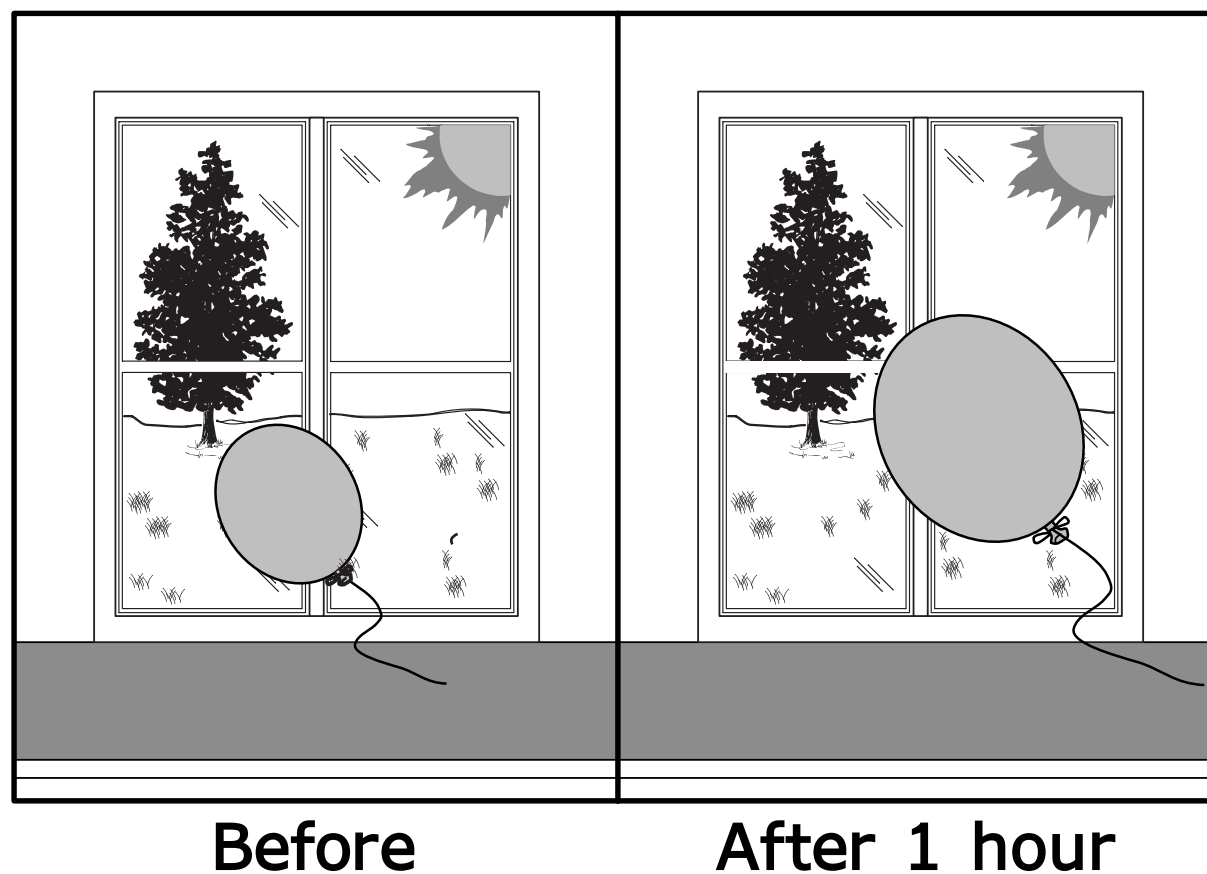
**Windy**

**D**



**Tornado**

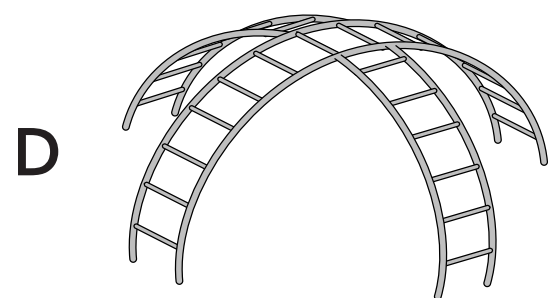
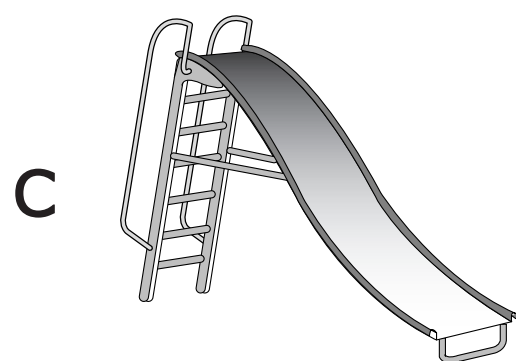
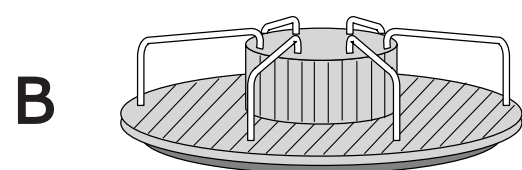
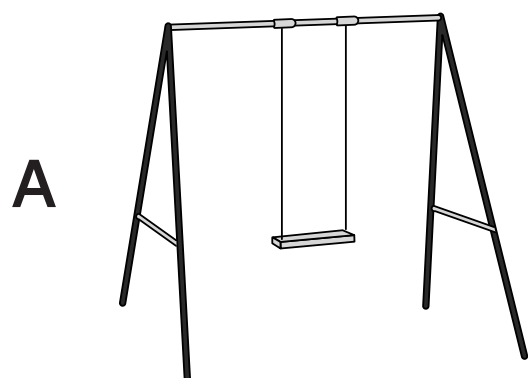
2



Bobby put his balloon near a window. The picture shows what happened to the balloon after it was near a window for about an hour. Which of these probably caused the balloon to become larger?

- F Heat from the sun
- G Glass in the window
- H The tree by the window
- J The string on the balloon

3 Which piece of playground equipment is made for circular motion?



4 Which of these will look most like its parent when it hatches from an egg?

F A butterfly

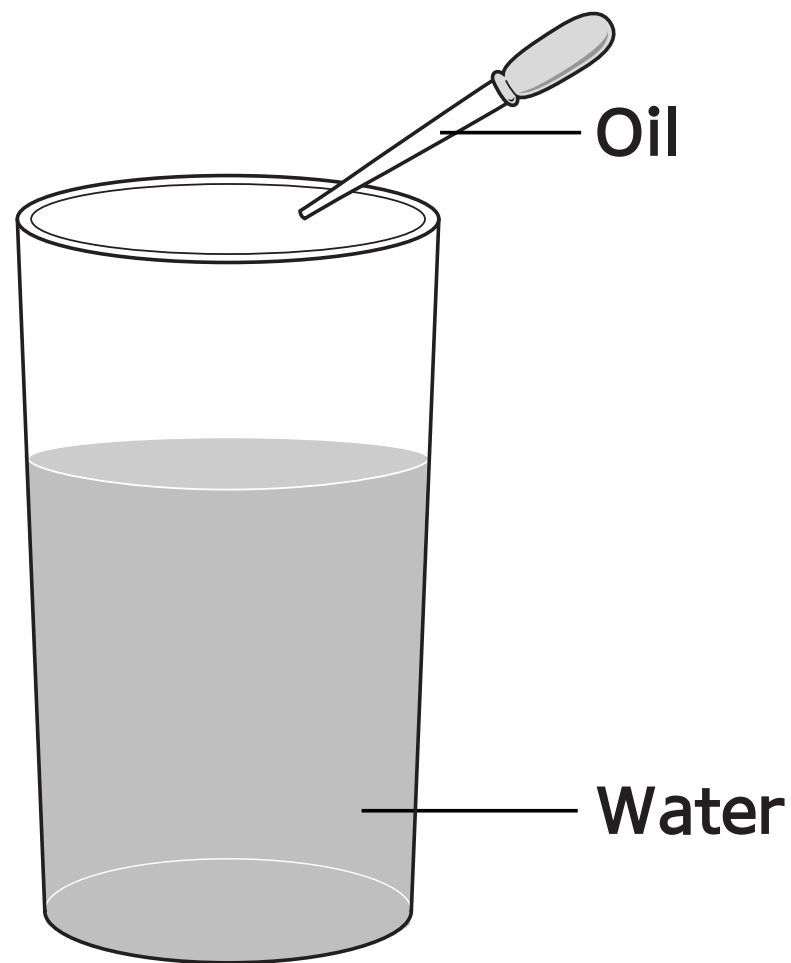
G A frog

H A snake

J A moth



5



If a small amount of oil is dropped into the water, the

- A oil and the water will mix
- B oil will rise to the top of the water
- C water will take up less space in the jar
- D water will rise to the top of the oil

6 Which of these is not a natural resource?

F Plants

G Insects

H Cars

J Soils

**7 What can we do to reduce air pollution?**

- A Take showers instead of baths**
- B Drive cars less often**
- C Pick up litter**
- D Recycle aluminum cans**

8

Beaver

Turtle

Insect

Lily pad

Fish

Which animal in this list is below the lily pad?

F Beaver

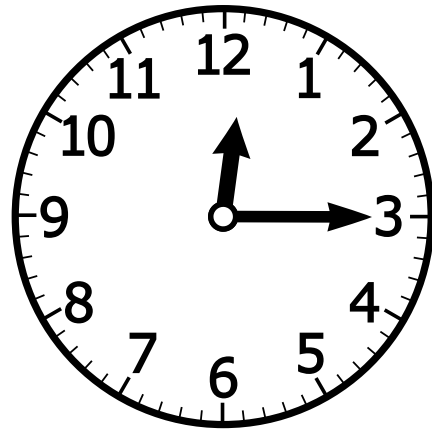
G Turtle

H Insect

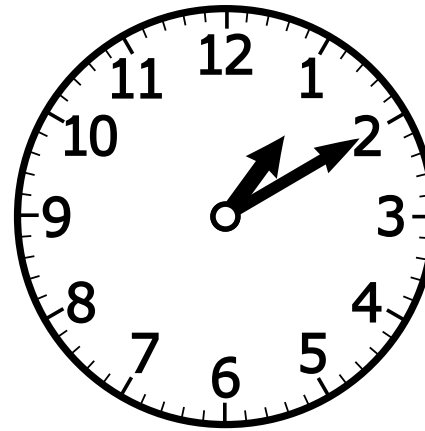
J Fish

9

Start



Stop



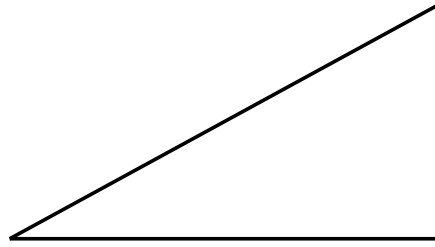
A bucket of ice was left outside to melt on a warm day. The picture shows the time the experiment was started and the time the ice finally melted. At what time did the ice melt?

- A 1:02 P.M.
- B 1:10 P.M.
- C 12:15 P.M.
- D 2:10 P.M.

**10 Which of these is a herbivore?**

- F A cat that eats mice**
- G A cow that eats grass**
- H A frog that eats insects**
- J An opossum that eats fruit and fish**

11



This object could be used to hold a door open.  
What is it?

- A A wedge
- B A screw
- C A lever
- D A pulley

12 Bobby has a pet lizard that eats insects. Which of these does not need to be in the lizard's cage?

F Air

G Plants

H Clean water

J Grasshoppers

13 A piece of metal is probably a magnet if it

A can pull some metals to it

B has a dull metal color

C becomes rusty in the rain

D has the letter N on it



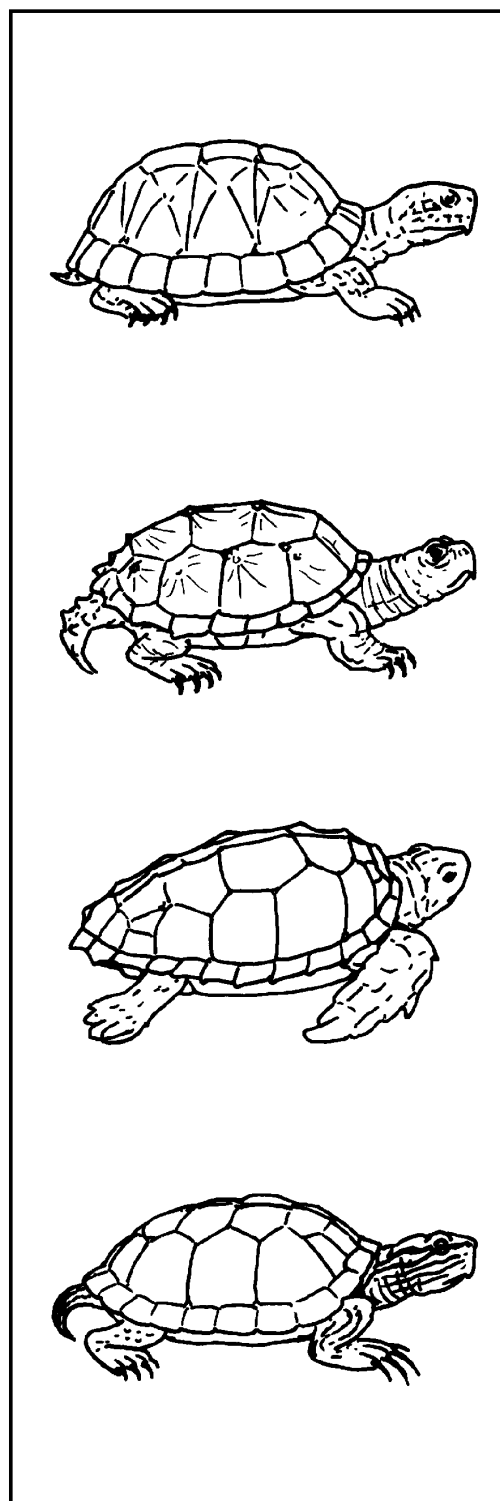
14 In a dry riverbed, what part of the water cycle is needed for the river to run?

F Evaporation

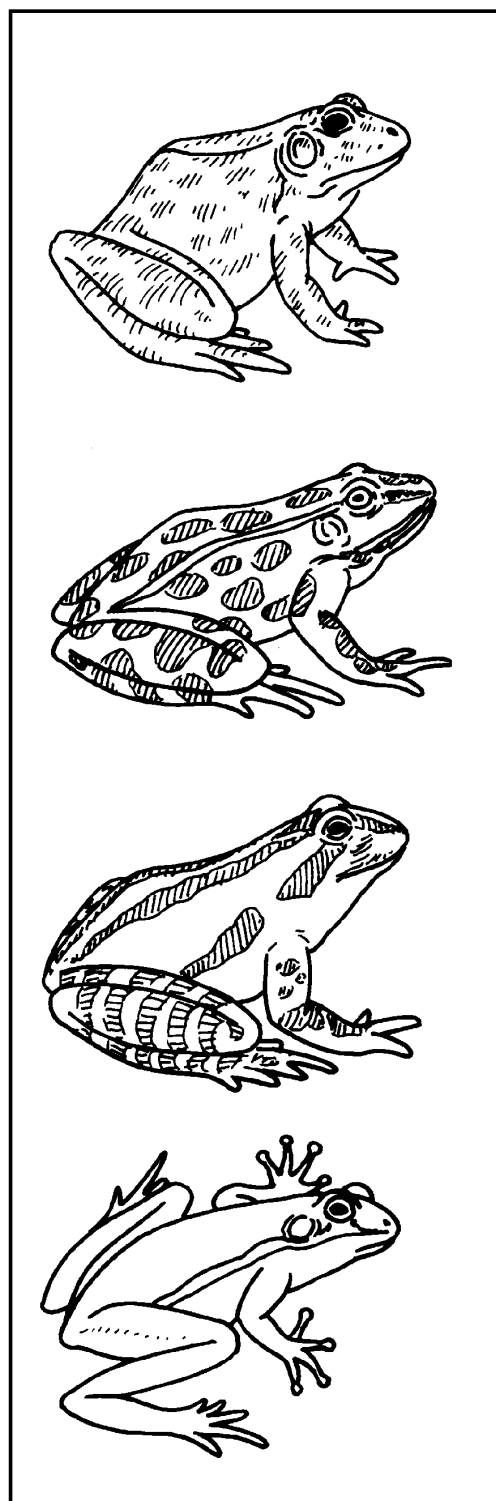
G Condensation

H Precipitation

J Weathering



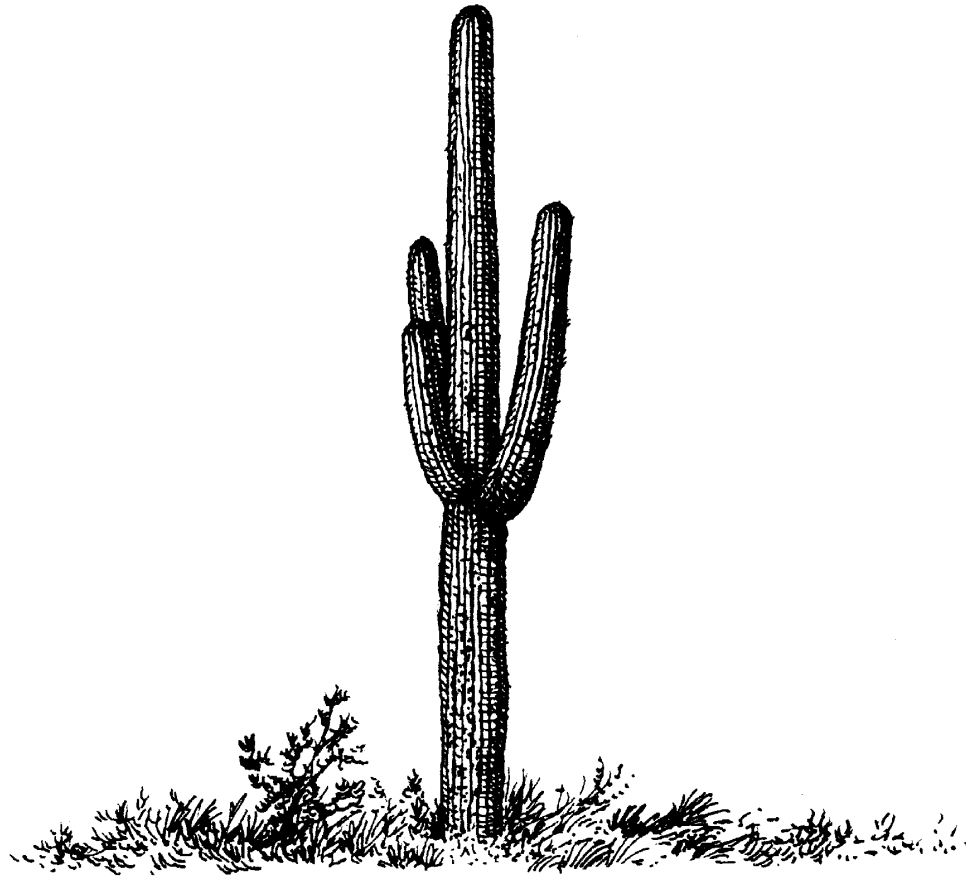
A



B

The animals in box A are DIFFERENT from the animals in box B because the animals in box A

- A have webbed feet
- B have four legs
- C have a hard shell
- D do not have tails



This cactus has a thick skin that feels like wax.  
This type of skin is important because it

- F helps to save water
- G keeps the plant warm
- H allows the plant to get food from the air
- J keeps the plant from falling over



A shadow is caused by

- A light being blocked by an object
- B a lack of light in the room
- C too much light in the room
- D an object reflecting light

**18 When water evaporates, it changes into a**

**F solid**

**G mixture**

**H gas**

**J solution**

**19 Which of these objects is a type of screw?**

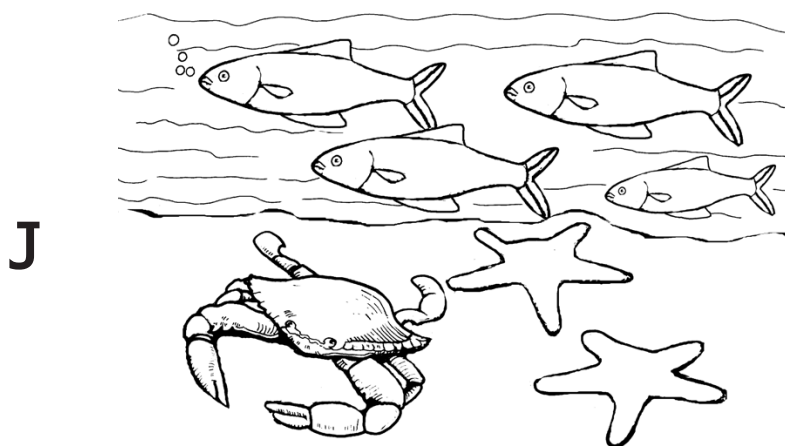
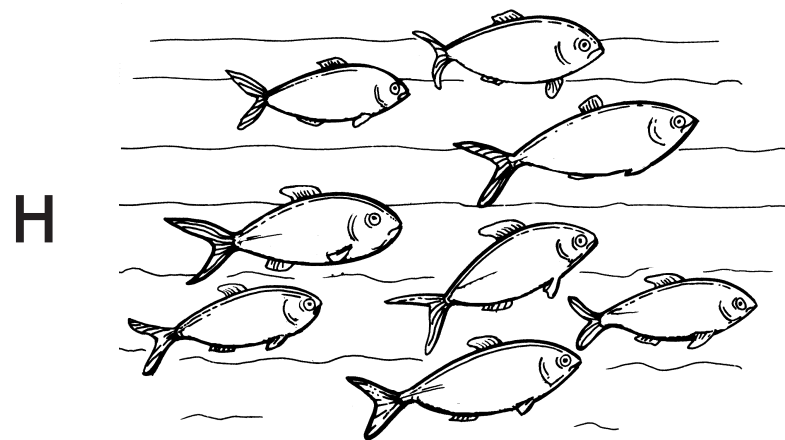
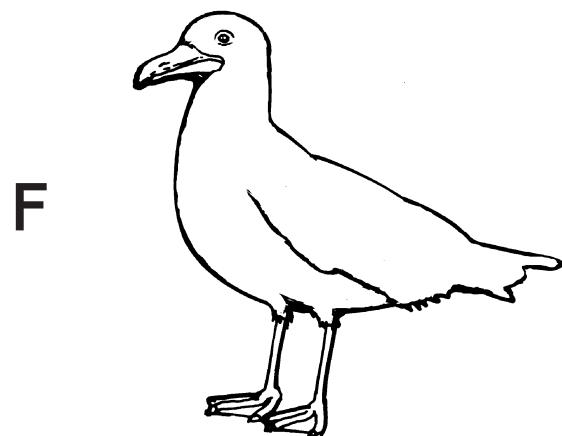
**A Flagpole**

**B Doorknob**

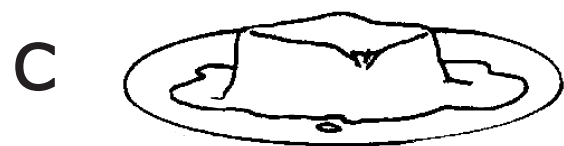
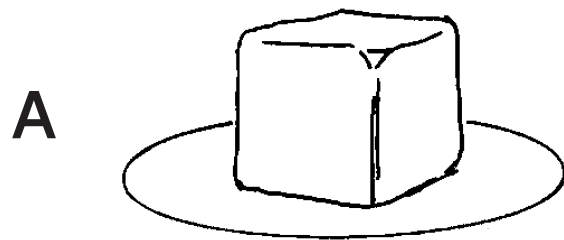
**C Roller skates**

**D Jar lid**

20 Which picture shows an ocean community?



21 The pictures below show an ice cube left on a plate in a warm room. Which picture was taken last?





22 Smelts are fish that lay their eggs in the sand on beaches. When the eggs hatch, the babies know to go to the water. This is an example of

- F instinct
- G hibernation
- H camouflage
- J learned behavior

23 Why is it easier to grow plants in topsoil than in subsoil?

- A Topsoil has more clay.
- B Topsoil has more rocks.
- C Topsoil has more dust.
- D Topsoil has more humus.

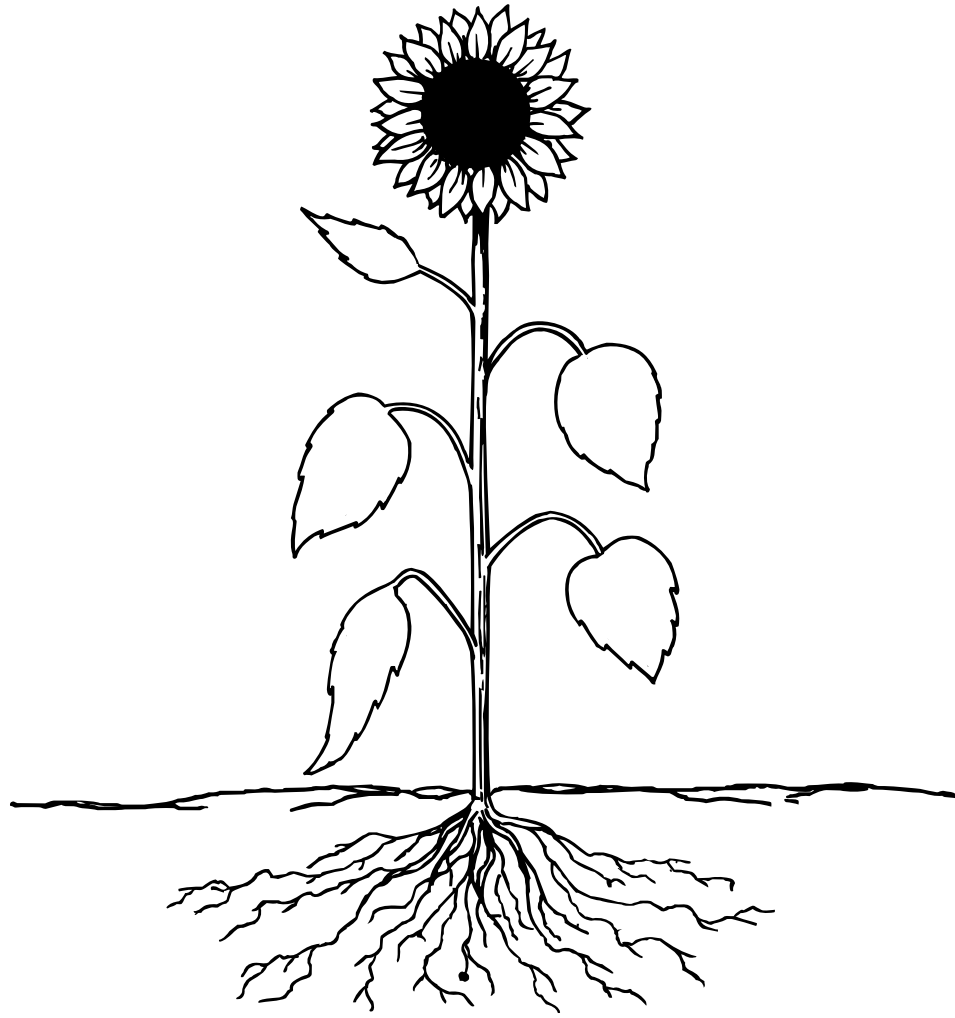
24 Which of these would be best to use to report the temperature of a liquid?

F Degrees Celsius

G Meters

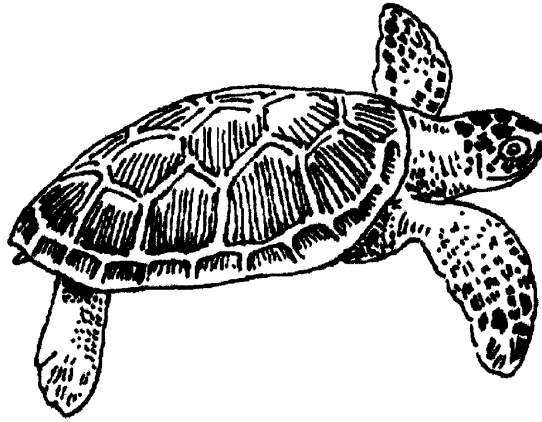
H Kilograms

J Liters



The part of this plant that takes water from the soil is the

- A stem
- B leaf
- C flower
- D root



A turtle uses its shell for

- F defense
- G movement
- H rearing young
- J storing food

27 A car, a tree, a grain of sugar, and a drop of ink are alike because they are all made of

- A metal
- B sunlight
- C smaller parts
- D air and water

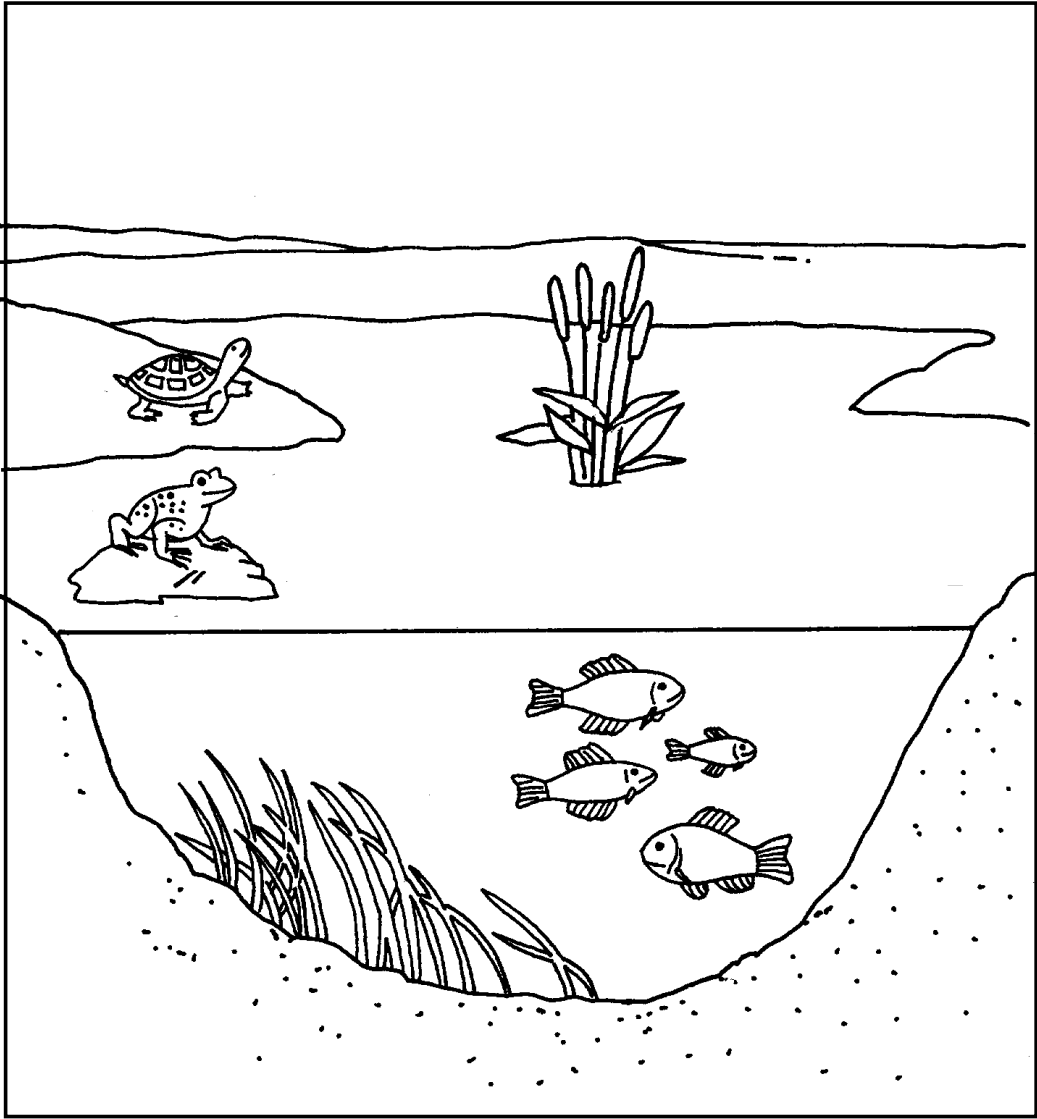
28 Even on the coldest winter days, there is some heat in the air. Almost all of the heat in the air comes from

F forest fires

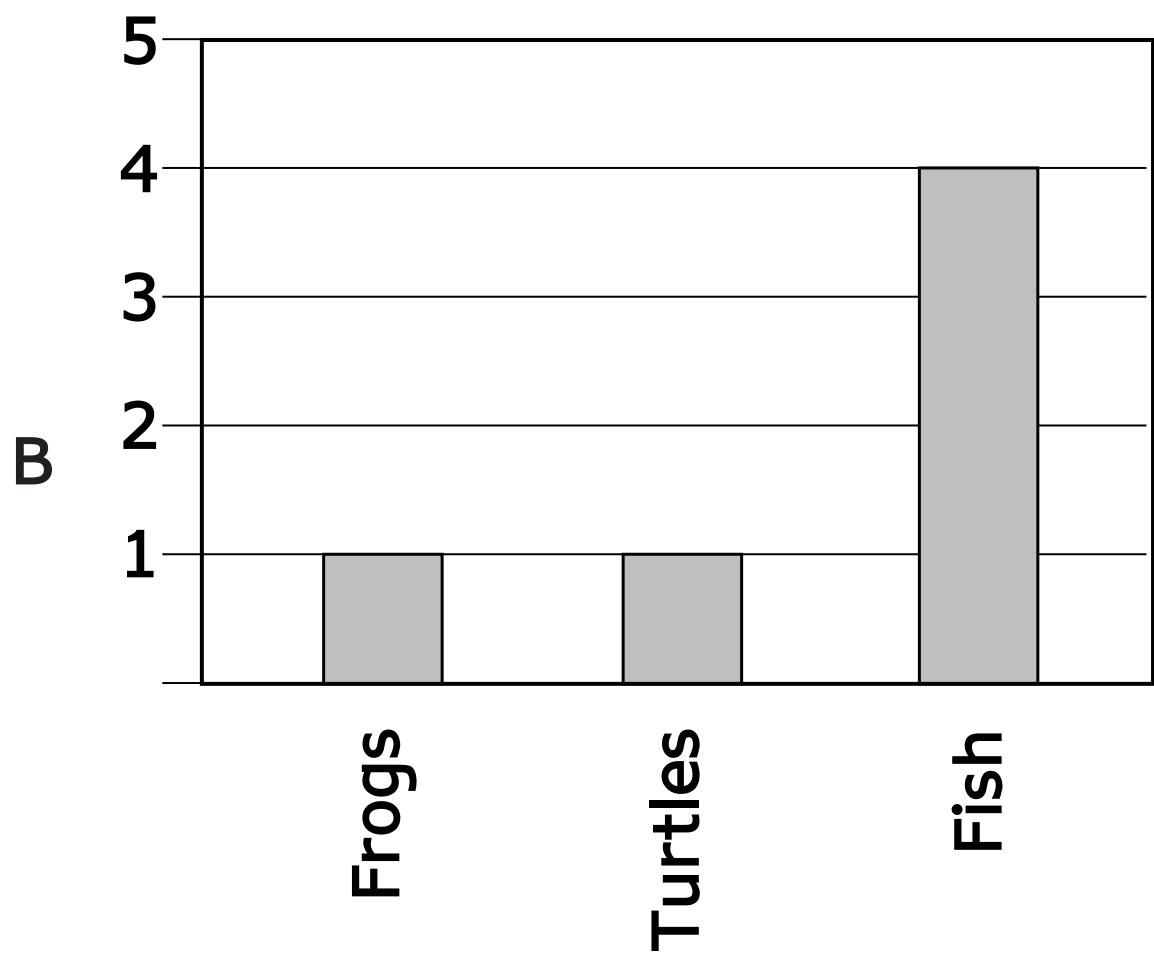
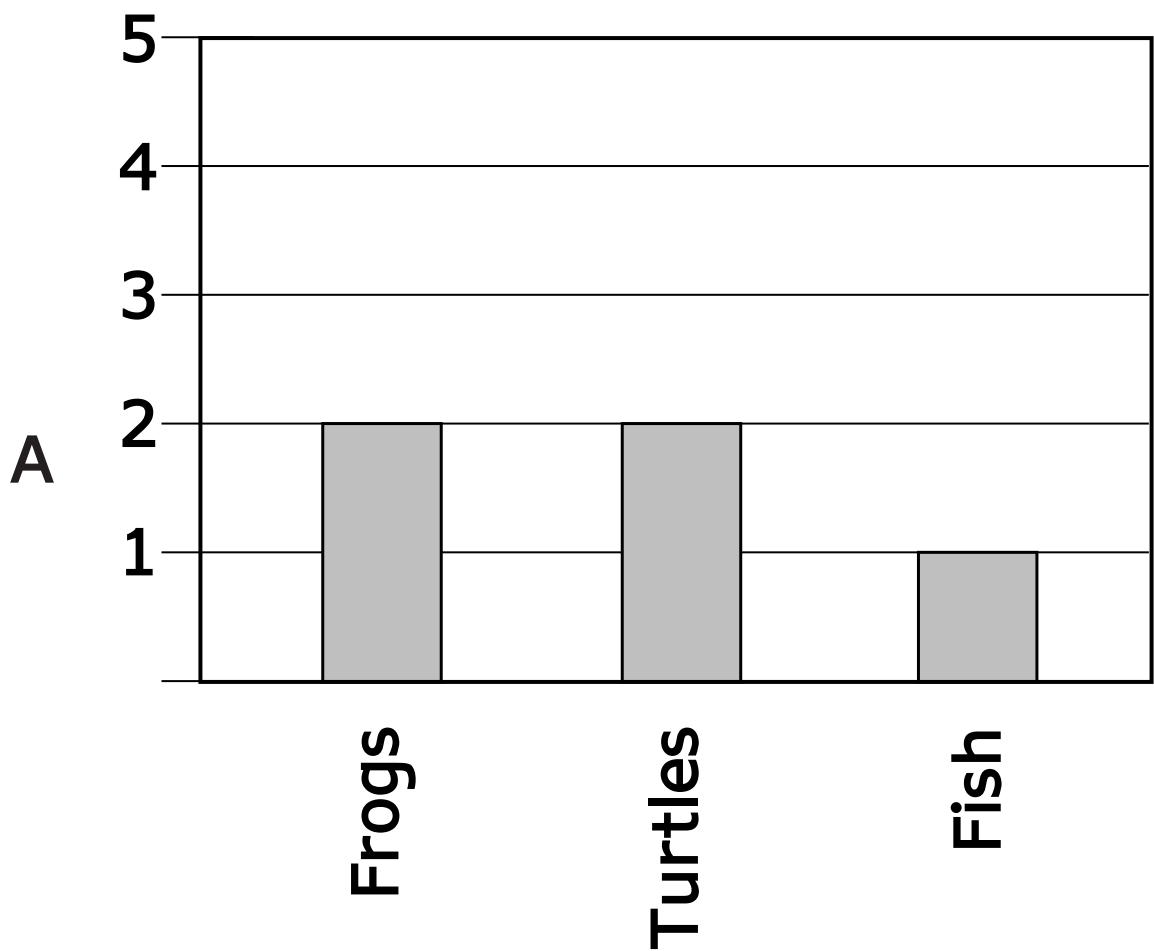
G volcanoes

H the sun

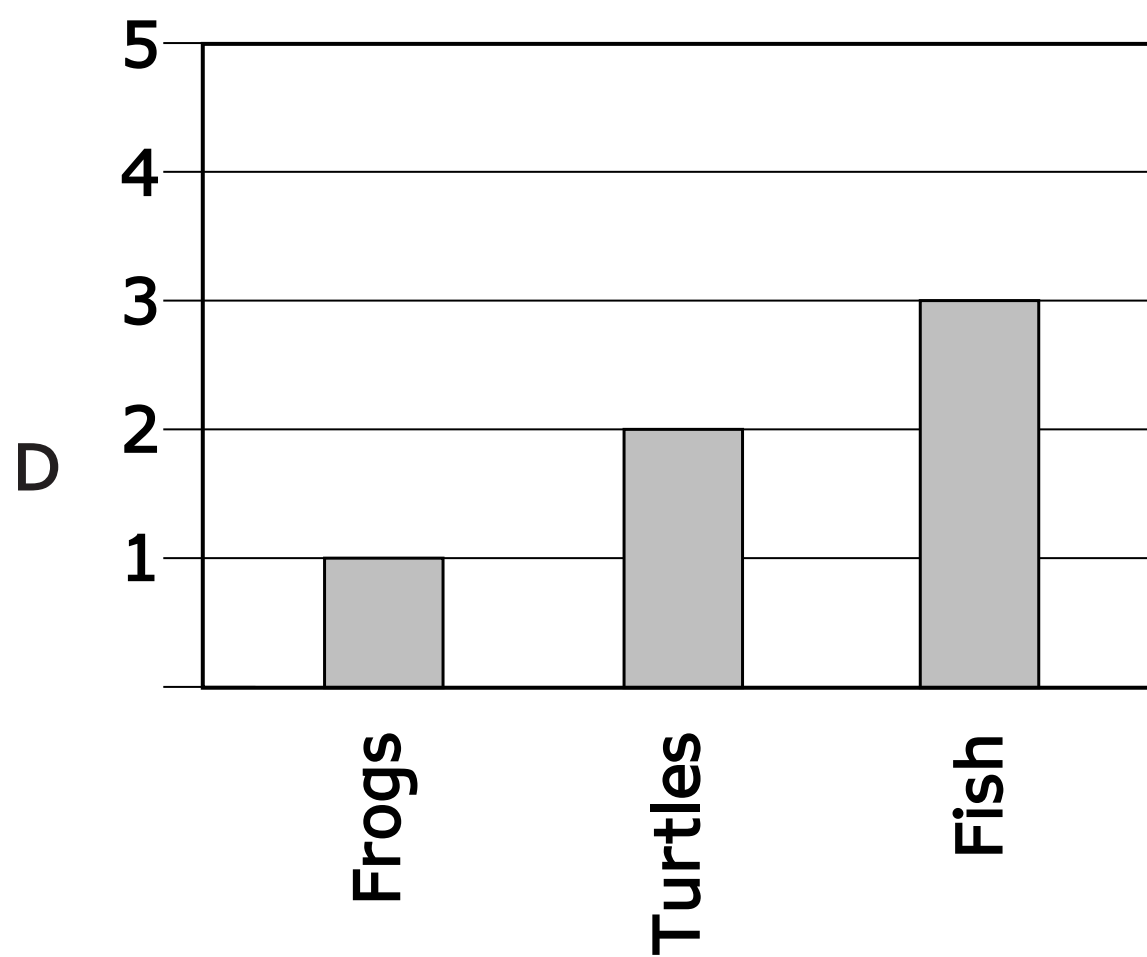
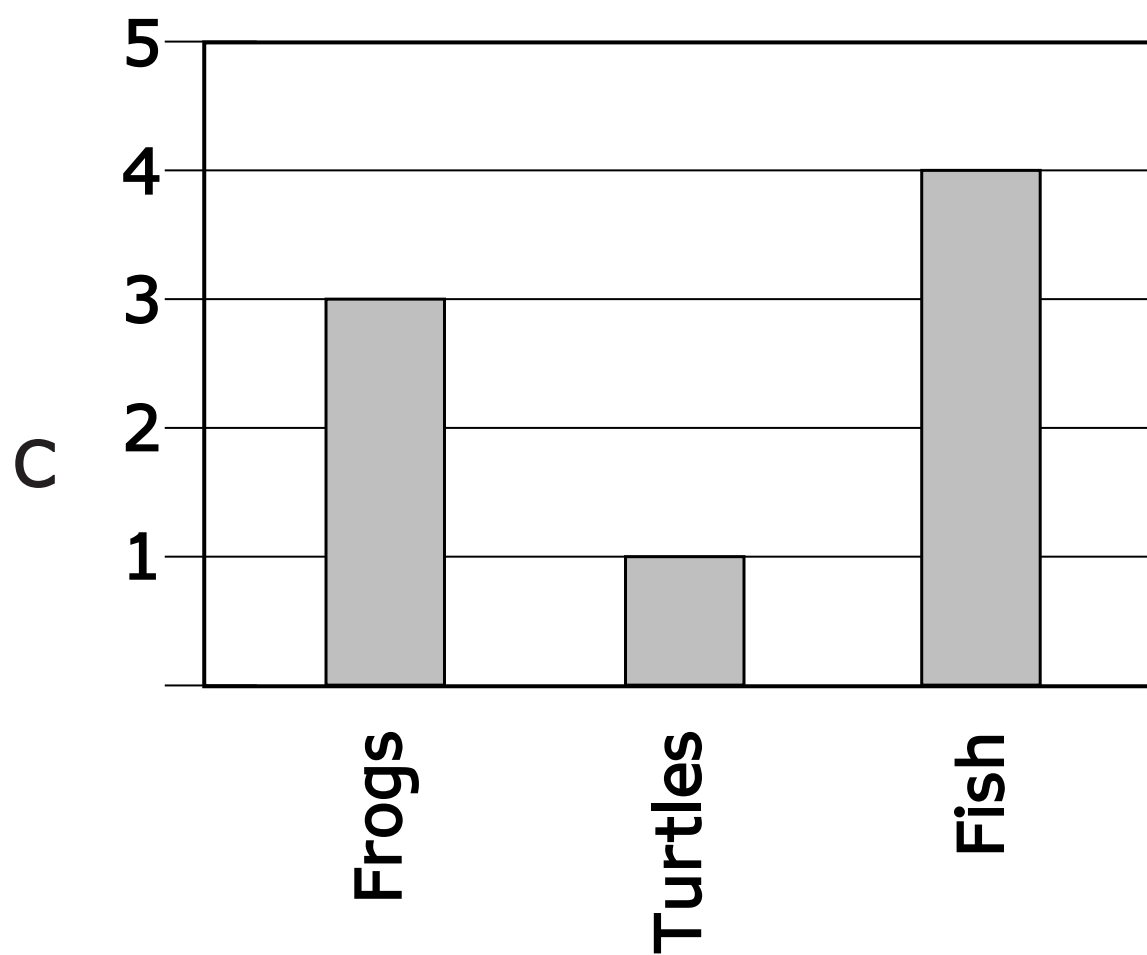
J the wind

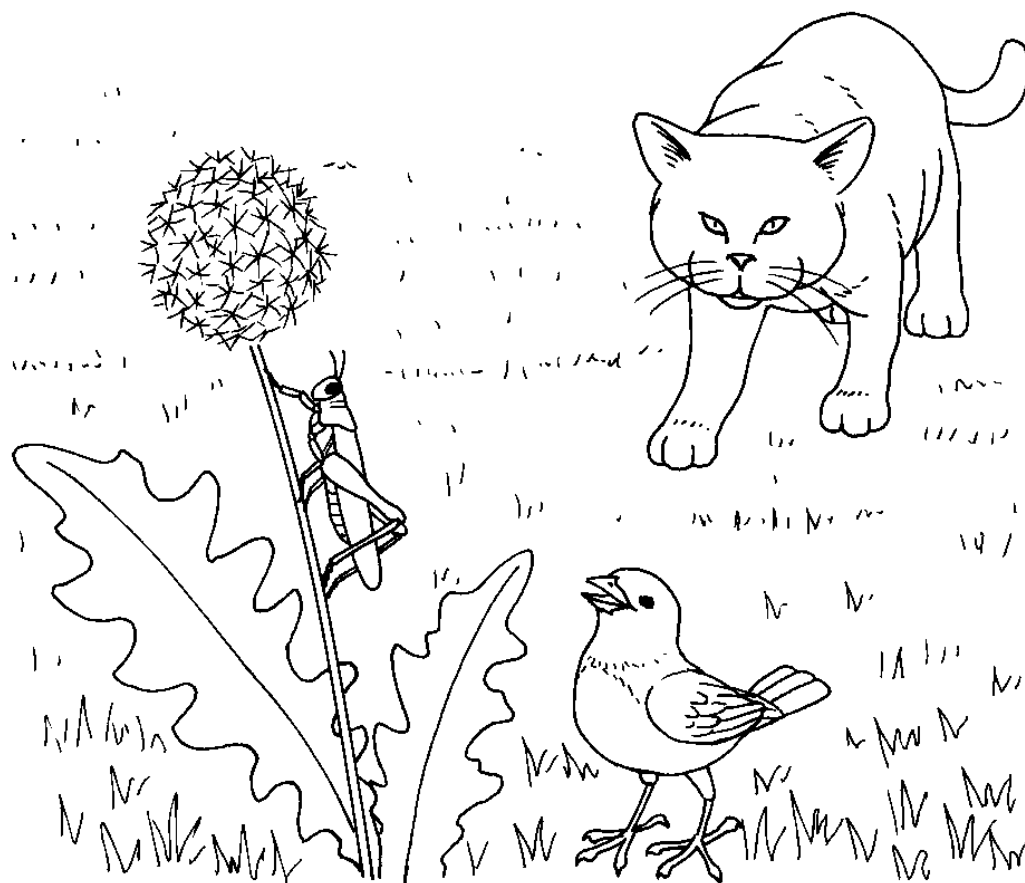


Which of these correctly tells about what is in the pond?









**Which living thing produces its own food?**

- F Cat**
- G Bird**
- H Grasshopper**
- J Dandelion plant**

**31 Soil is needed by plants because it gives the plants**

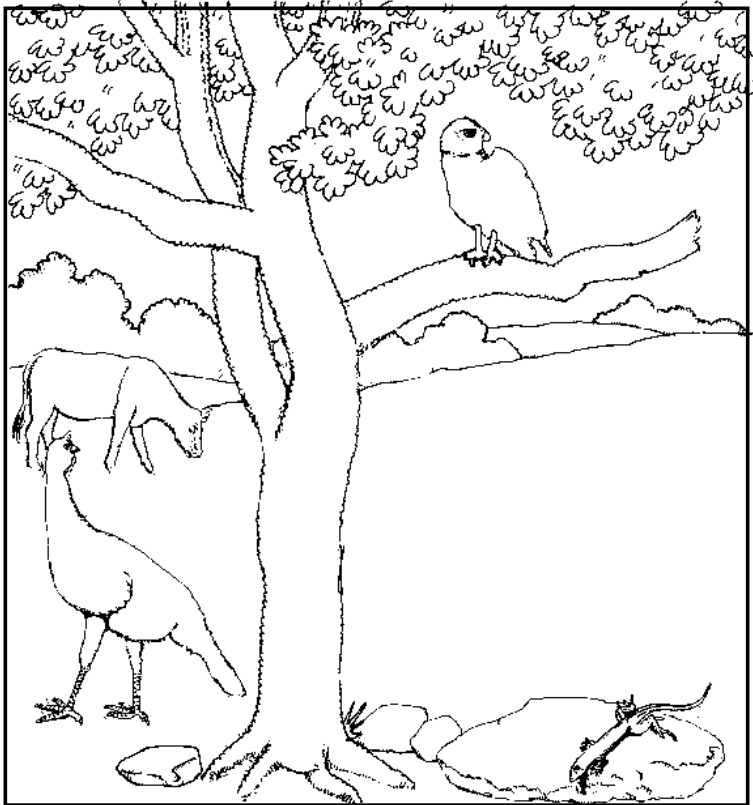
**A nutrients**

**B rocks**

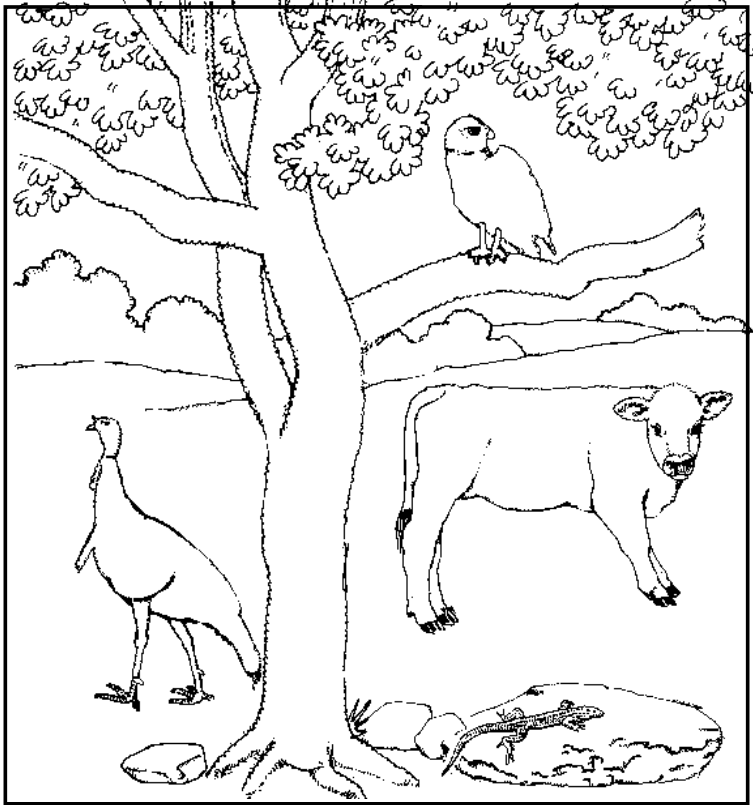
**C sand**

**D light**

Picture 1

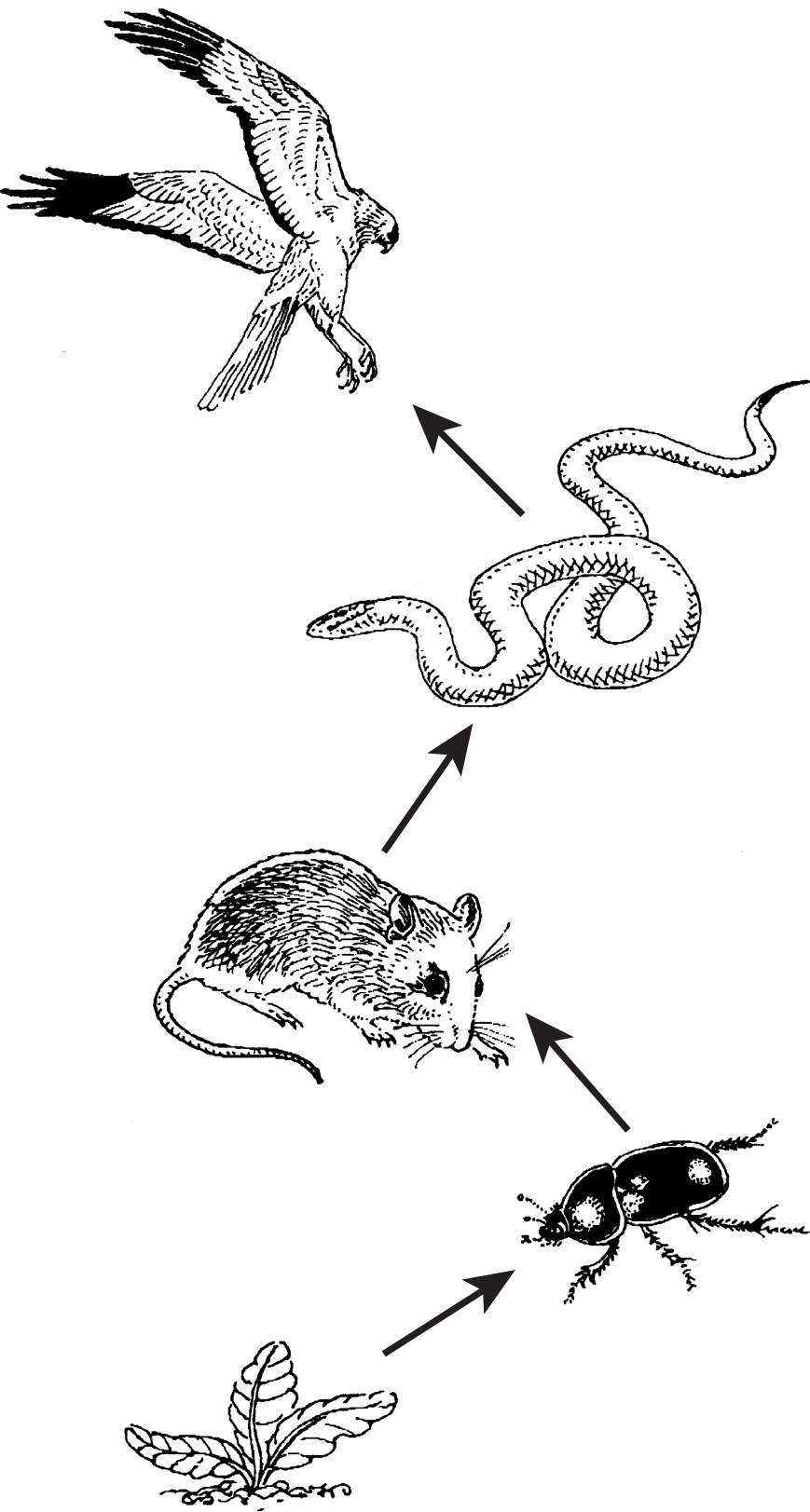


Picture 2



Between the times Picture 1 and Picture 2 were taken, which animal moved the most?

- F The owl
- G The calf
- H The turkey
- J The lizard



In the food chain above, what will likely happen if all of the mice leave the area?

- A There will not be enough insects in the food chain.
- B The plants will increase in number.
- C Snakes will not have enough food.
- D The food chain will not be harmed.

34 About how long does each season last?

- F 3 minutes
- G 3 weeks
- H 3 months
- J 3 years

35

Bird

Bird

Bird

Butterfly

Butterfly

Butterfly

Butterfly

Deer

Rabbit

Rabbit



Which graph correctly shows the animals in the list above?

A

rabbit rabbit
bird bird
butterfly butterfly butterfly
deer

B

deer
butterfly butterfly
rabbit rabbit rabbit
bird bird bird

C

deer
bird bird bird
rabbit rabbit
butterfly butterfly

D

butterfly butterfly butterfly butterfly
bird bird bird
rabbit rabbit
deer

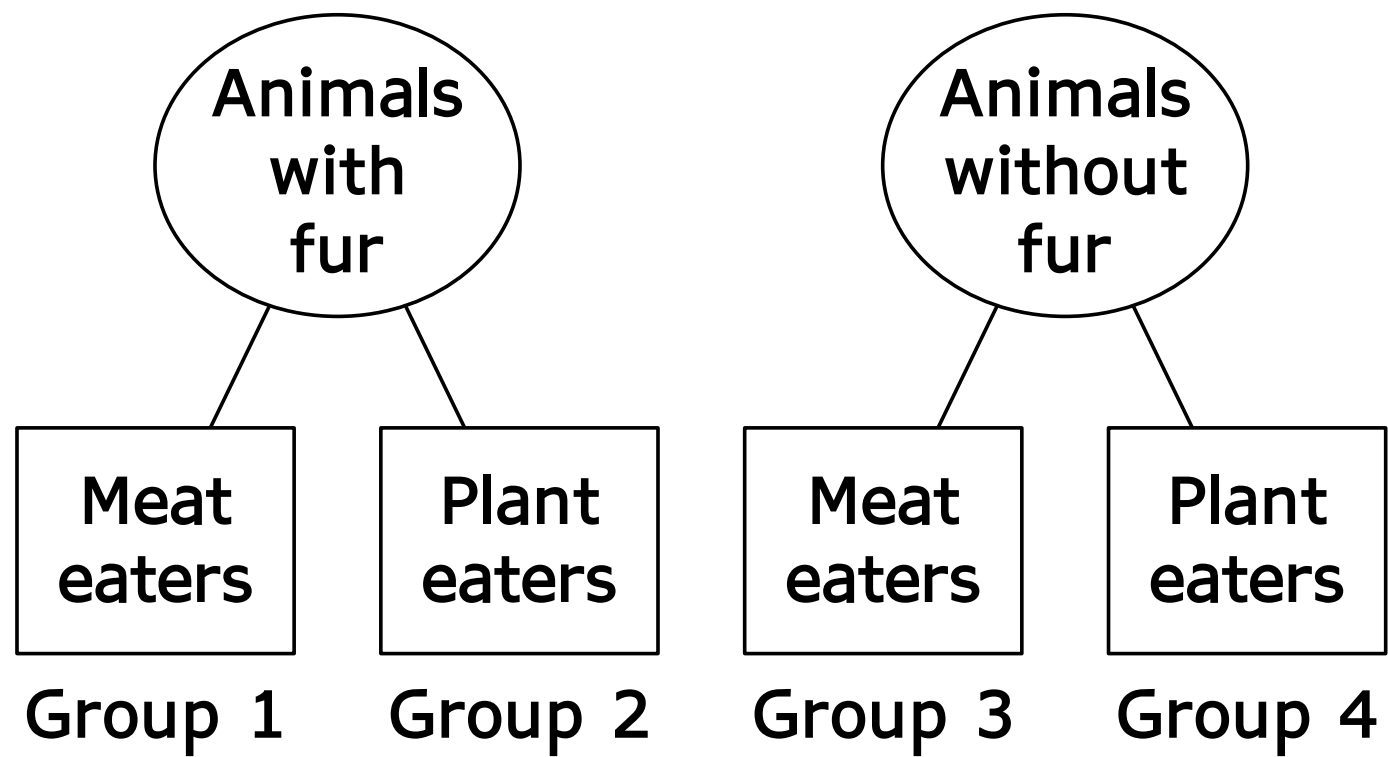
**36 Which of these properties will change when a rock is broken?**

- F Its color**
- G Its shape**
- H Its hardness**
- J Its texture**

**37 Which direction is a compass needle attracted to?**

- A North**
- B South**
- C East**
- D West**

38



A tiger belongs in which of the above groups?

- F Group 1
- G Group 2
- H Group 3
- J Group 4

# Answer Key

Test Sequence	Correct Answer	Reporting Category	Reporting Category Description
1	B	018	Earth/Space Systems and Cycles
2	F	015	Scientific Investigation, Reasoning, and Logic
3	B	016	Force, Motion, Energy, and Matter
4	H	017	Life Processes and Living Systems
5	B	016	Force, Motion, Energy, and Matter
6	H	018	Earth/Space Systems and Cycles
7	B	018	Earth/Space Systems and Cycles
8	J	016	Force, Motion, Energy, and Matter
9	B	015	Scientific Investigation, Reasoning, and Logic
10	G	017	Life Processes and Living Systems
11	A	016	Force, Motion, Energy, and Matter
12	G	017	Life Processes and Living Systems
13	A	016	Force, Motion, Energy, and Matter
14	H	018	Earth/Space Systems and Cycles
15	C	015	Scientific Investigation, Reasoning, and Logic
16	F	017	Life Processes and Living Systems
17	A	018	Earth/Space Systems and Cycles
18	H	016	Force, Motion, Energy, and Matter
19	D	016	Force, Motion, Energy, and Matter
20	J	017	Life Processes and Living Systems
21	B	015	Scientific Investigation, Reasoning, and Logic
22	F	017	Life Processes and Living Systems
23	D	018	Earth/Space Systems and Cycles
24	F	015	Scientific Investigation, Reasoning, and Logic
25	D	017	Life Processes and Living Systems
26	F	017	Life Processes and Living Systems
27	C	016	Force, Motion, Energy, and Matter
28	H	018	Earth/Space Systems and Cycles
29	B	015	Scientific Investigation, Reasoning, and Logic
30	J	017	Life Processes and Living Systems
31	A	018	Earth/Space Systems and Cycles
32	G	015	Scientific Investigation, Reasoning, and Logic
33	C	017	Life Processes and Living Systems
34	H	018	Earth/Space Systems and Cycles
35	D	015	Scientific Investigation, Reasoning, and Logic
36	G	016	Force, Motion, Energy, and Matter
37	A	016	Force, Motion, Energy, and Matter
38	F	015	Scientific Investigation, Reasoning, and Logic





1 2 3 4 5 6 7 8 9 10 11 12 A B C D E